BookletChartTM

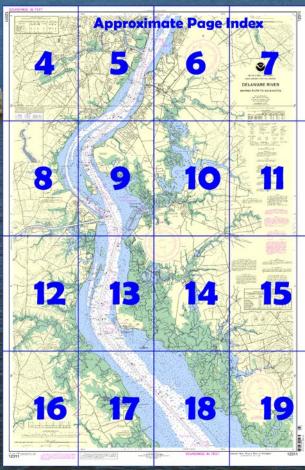
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Delaware Bay – Smyrna River to Wilmington NOAA Chart 12311

A reduced-scale NOAA nautical chart for small boaters When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker





Published by the National Oceanic and Atmospheric Administration National Ocean Service Office of Coast Survey

<u>www.NauticalCharts.NOAA.gov</u> 888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart[™]?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=123 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=123 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=123 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=123 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=123 http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=123 <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbycharts.noaa.gov/nsd/searchbychart.php?chart=123 <a href="http://www.nauticalcharts.noaa.gov/nsd/searchbycharts.noaa.gov/nsd/sea



(Selected Excerpts from Coast Pilot)
Artificial Island. The domes of the Salem
Nuclear Power Plant, at the south end of the
island, are prominent. An unmarked channel
leads to a basin south of the powerplant; 18
feet was reported in the channel and basin.
Alloway Creek has a depth of 3 feet to
Quinton. The approach is unmarked. The
shoals on either side of the mouth must be
avoided. Above the mouth, the best water is
not always in midstream, and local

knowledge is needed. The current velocity is 2.1 knots 0.2 mile above the entrance and 1.4 knots at New Bridge.

The Mill Street bridge at **Hancocks Bridge** has a clearance of 4 feet. Salem County Bridge at **New Bridge** has a clearance of 3 feet. The State

Route 49 bridge at **Quinton** has a clearance of 3 feet. The bridge is in the closed position.

Salem River is entered through **Salem Cove** across from the Chesapeake and Delaware Canal. The approach channel is marked by a lighted buoy, lights, and a lighted **027.3°** range; the depth was 13.4 feet (15.4 feet at midchannel) to Light 14; 12.2 feet through the landcut with 14 to 16 feet in the basin; 16.0 feet to near the bridge at Salem. Above the bridge the depths were 2 feet or less.

Several marinas and boatyards are along the north bend of Salem River and at Salem; slips, gasoline, and marine supplies are available.

Appoquinimink River is used by pleasure craft. Controlling depth to Odessa is 2 feet. The current velocity in the entrance is 1.1 knots. The bridge 3 miles above the mouth has a clearance of 6 feet. The bridge at **Odessa** has a clearance of 4 feet.

Reedy Island. The pier on the channel side of the island has a depth of 10 feet; the current velocity is about 2.5 knots off the pier. A submerged dike extends 3 miles southward from Reedy Island and parallels the western shore; the dike is marked by lights, and unlighted seasonal warning buoys.

Port Penn. The approach, through the Reedy Island dike south of the island, is 5 feet deep and 150 feet wide, and marked on each side by a daybeacon. Approaches to the village from north of Reedy Island or from south of the dike are over flats with depths of 2 feet. Anchorage depths off Port Penn are 15 feet or more.

Delaware City Branch Channel. A light marks the entrance to Delaware City Branch Channel; the controlling depth was 5 feet in the channel entrance from the Delaware River shoaling rapidly along the sides; thence the controlling depth was 6 feet in the channel. Depths alongside the Delaware City bulkhead were 7½ feet to bare. The entrance channel at the Chesapeake and Delaware Canal end was reported to have a depth of 7 feet. Mariners are cautioned to stay inside the north and south entrance channels.

A highway bridge with a clearance of 6 feet crosses the channel 0.6 mile above the entrance; the bridge is maintained in the closed position. Berths, gasoline, diesel fuel, ice, and marine supplies are available on the west side of Delaware City Branch Channel southwest of the northeast entrance.

Anchorages.—Vessels must not anchor in Christina River channel within the city limits of Wilmington or tieup at any wharf more than two abreast without permission of the harbor commissioners. A general anchorage is off Deepwater Point, south of the river entrance. (See 110.1 and 110.157(a)(7) and (b), chapter 2, for limits and regulations, and page 391 for Wilmington climatological table.)

Bridges.—There are no bridges or overhead power cables over the deepwater section of Christina River. From Lobdell Canal to just above the bridge at Newport, 6.8 miles above the mouth, the least clearance of drawbridges is 2 feet and fixed bridges, 22 feet. (See **117.1 through 117.59 and 117.237**, chapter 2, for drawbridge regulations.) In May 2008, it was reported that the Christina River swing bridge at mile 5.4 was in ruins; caution is advised.

In 1984, partially submerged concrete structures of a former bridge were reported about 4.9 miles above the mouth of the river near Interstate 95 fixed bridge; caution is advised.

Currents.—The current velocity is about 0.8 knot at Wilmington. **Quarantine, customs, immigration, and agricultural quarantine.**—(See chapter 3, Vessel Arrival Inspections, and appendix for addresses.)

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Norfolk

Commander 5th CG District

Norfolk, VA

(575) 398-6231



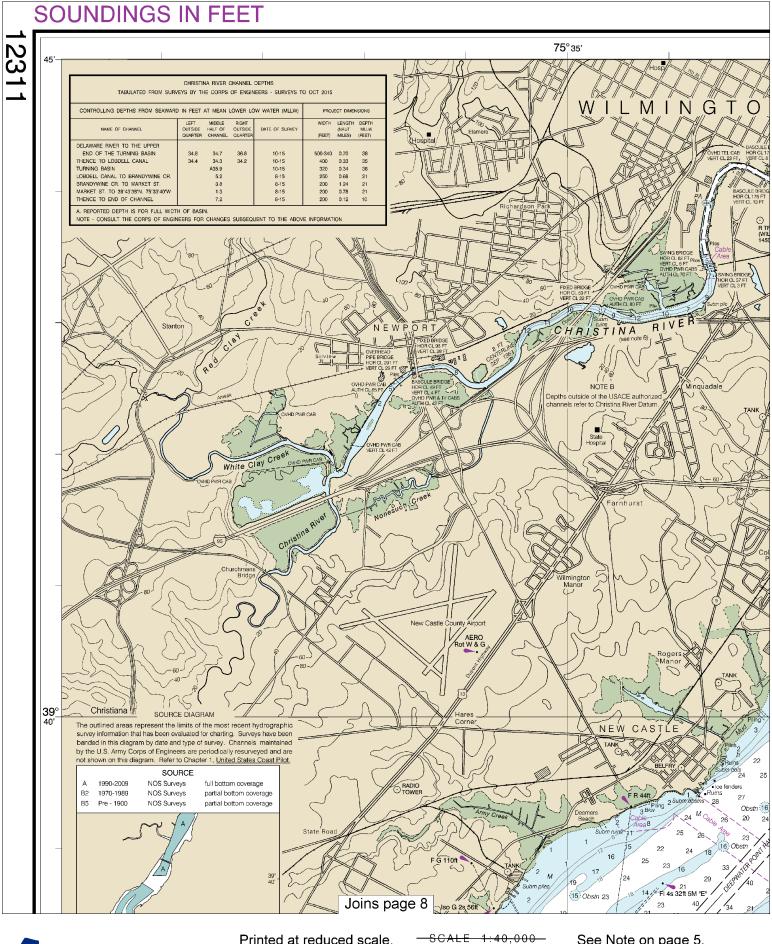
NOAA's navigation managers serve as ambassadors to the maritime community.

They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit nauticalcharts.noaa.gov/service/navmanagers

To make suggestions or ask questions online, go to *nauticalcharts.noaa.gov/inquiry*. To report a chart discrepancy, please use *ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx*.

Lateral System As Seen Entering From Seaward on navigable waters except Western Rivers







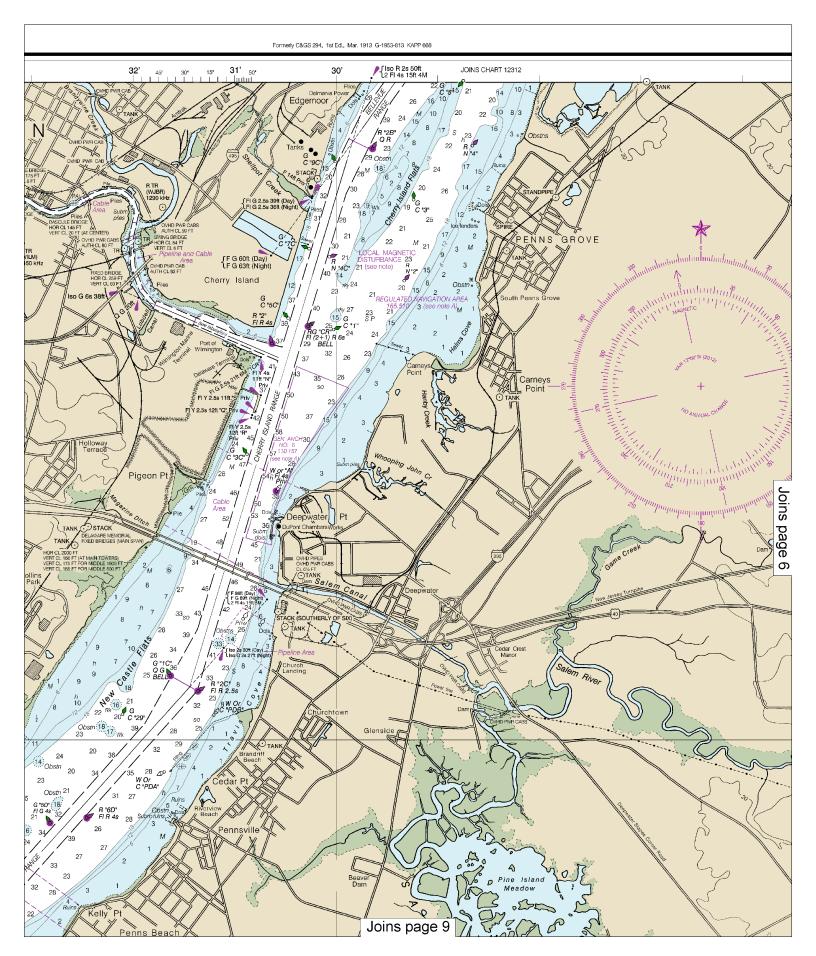
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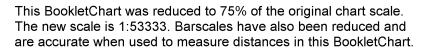
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Nautical Miles

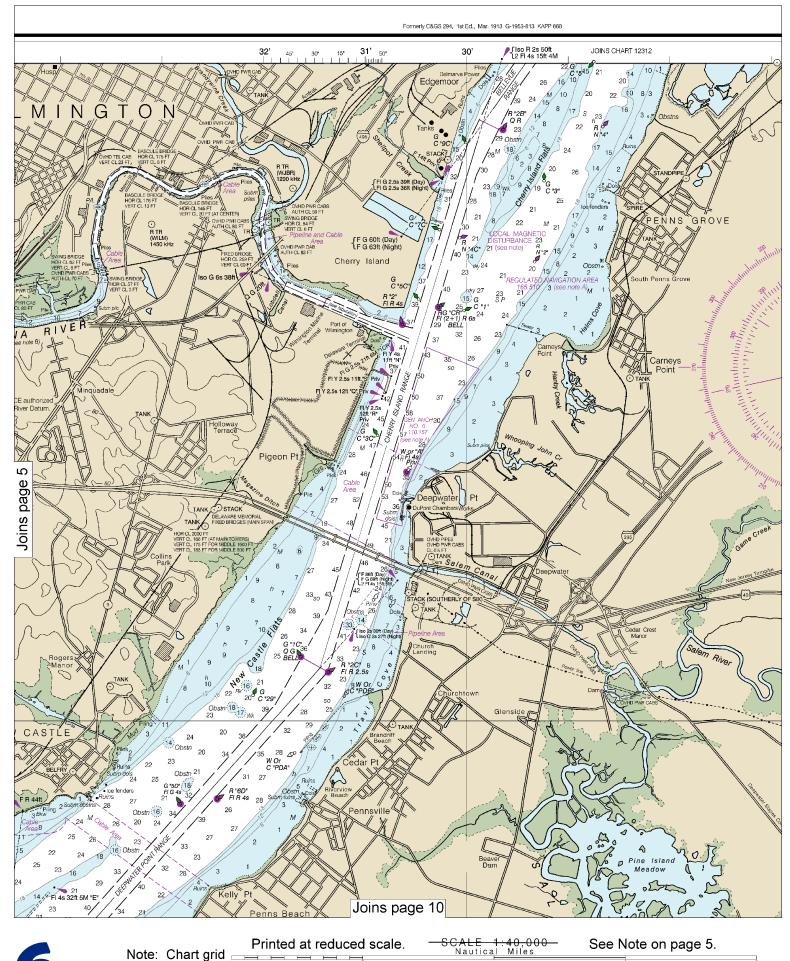
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Note: Chart grid lines are aligned with true north.

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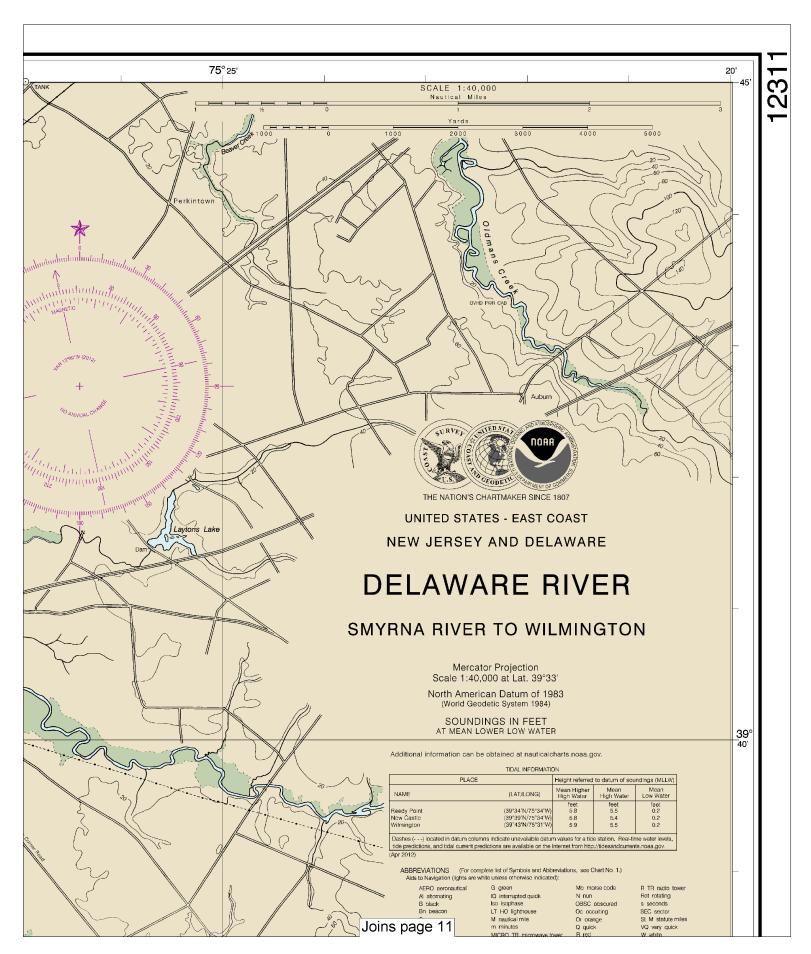
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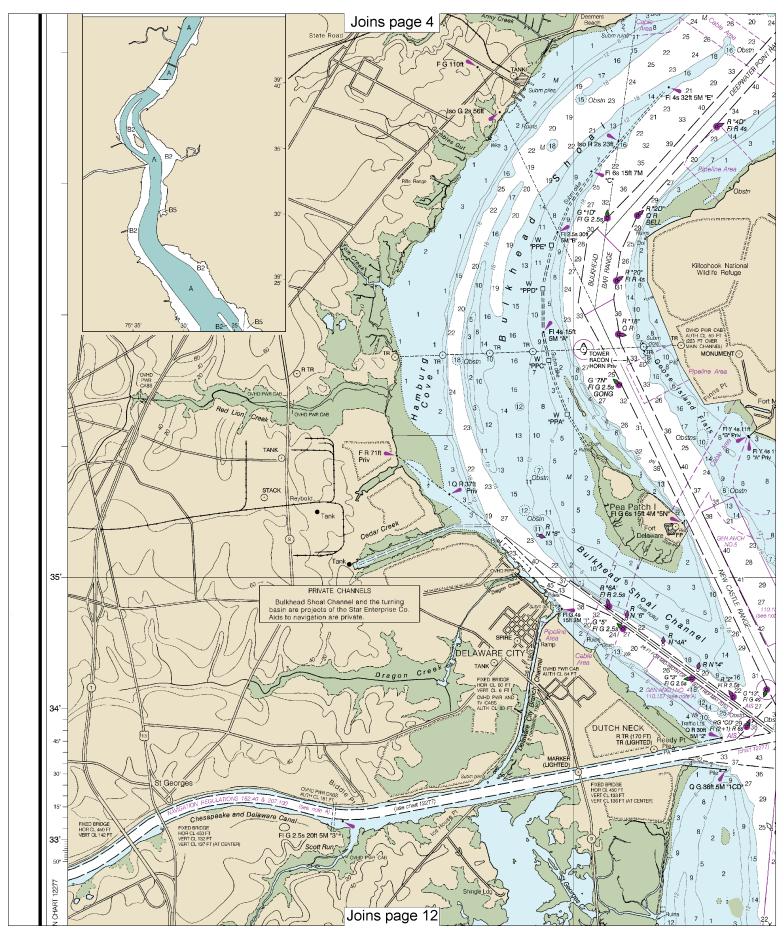
See Note on page 5.

Nautical Miles

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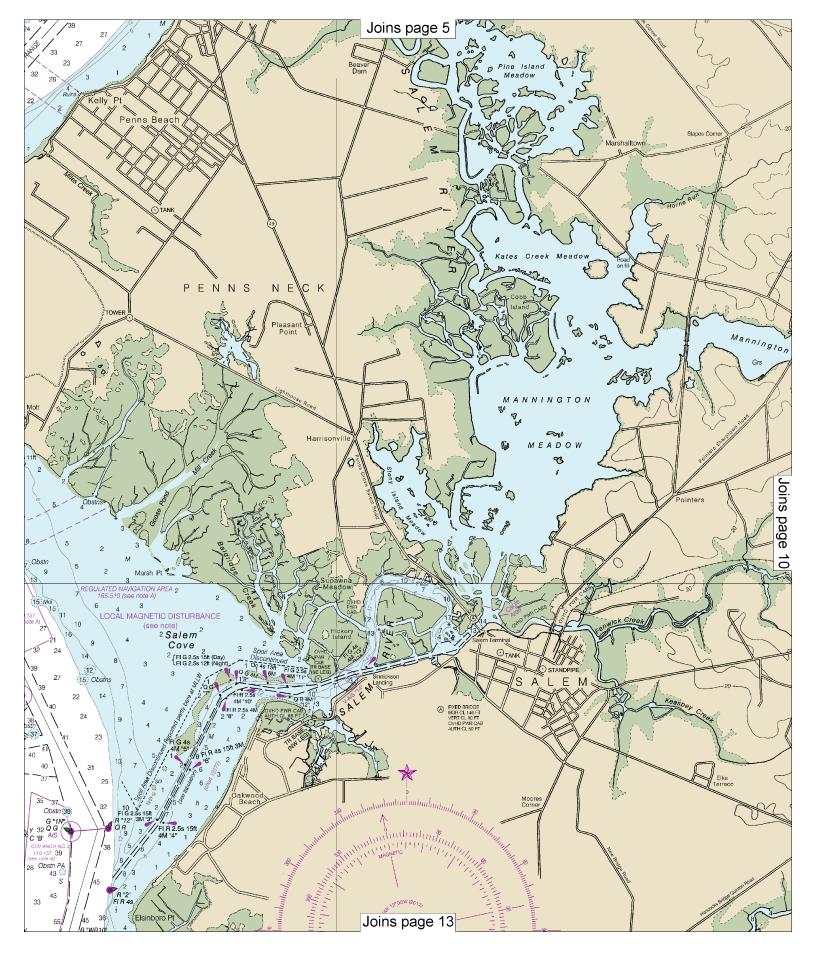
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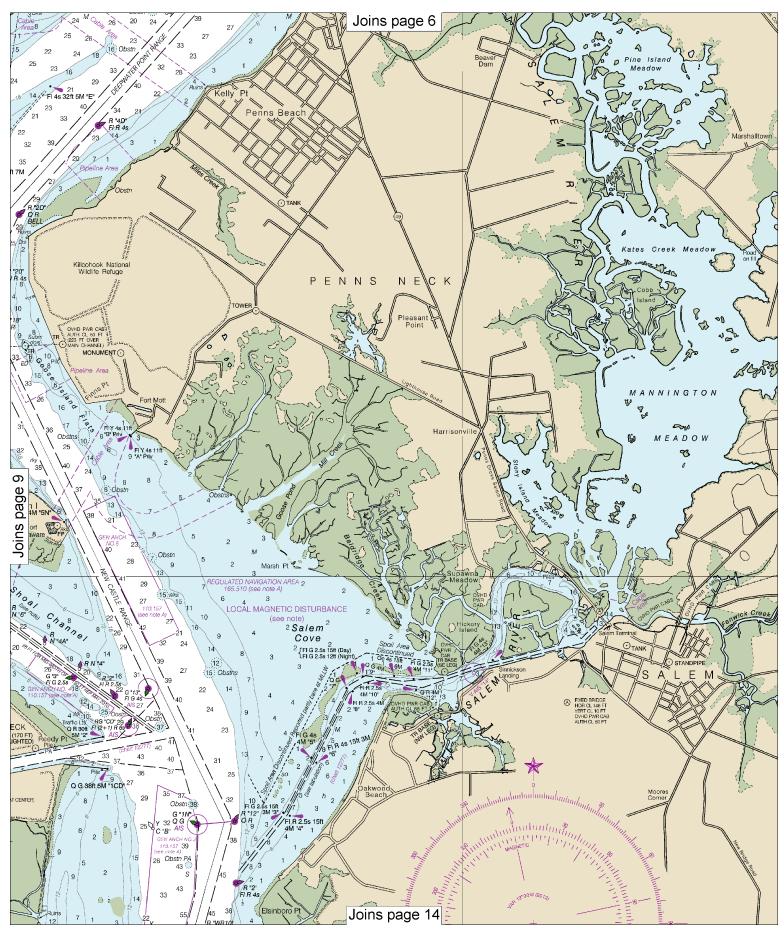
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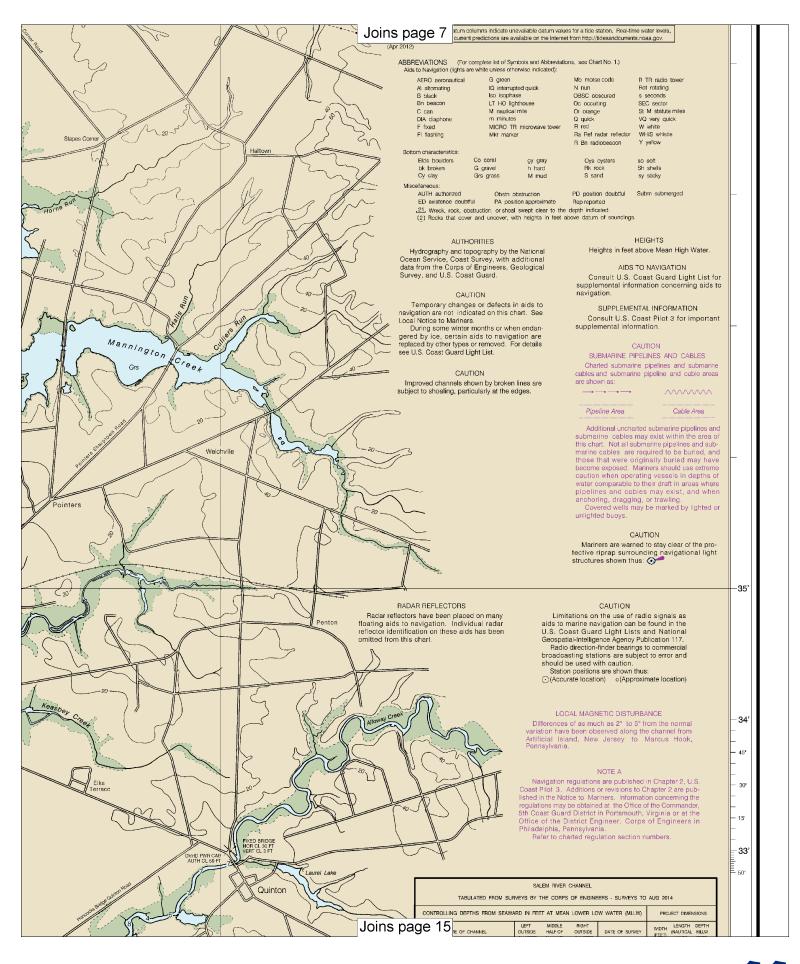


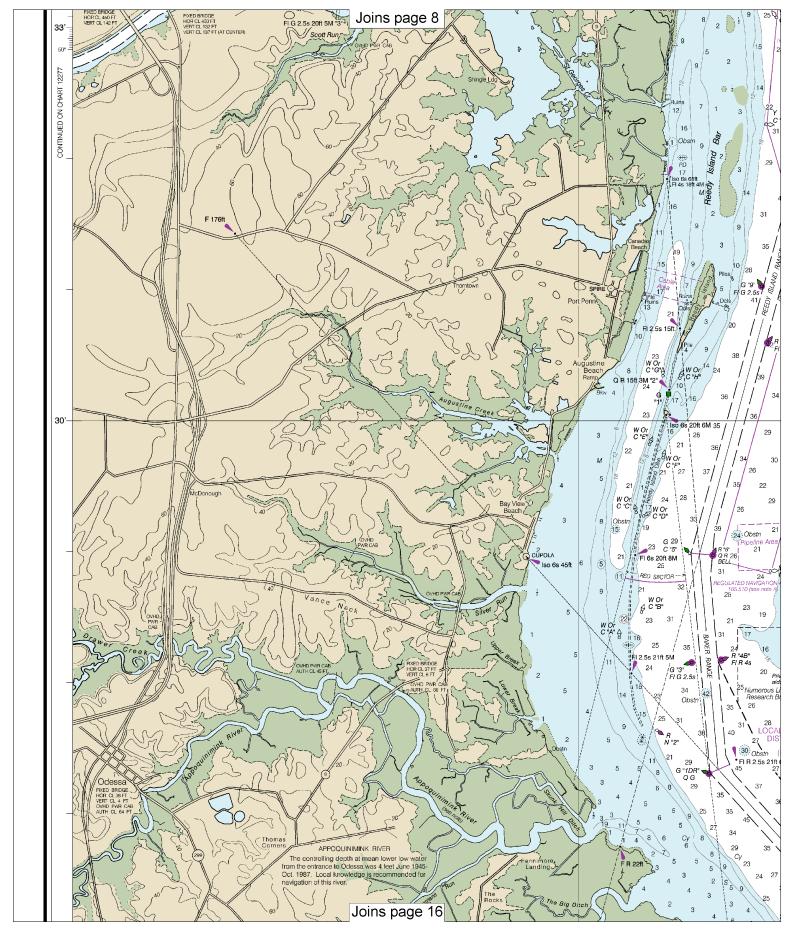




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Note: Chart grid lines are aligned with true north.





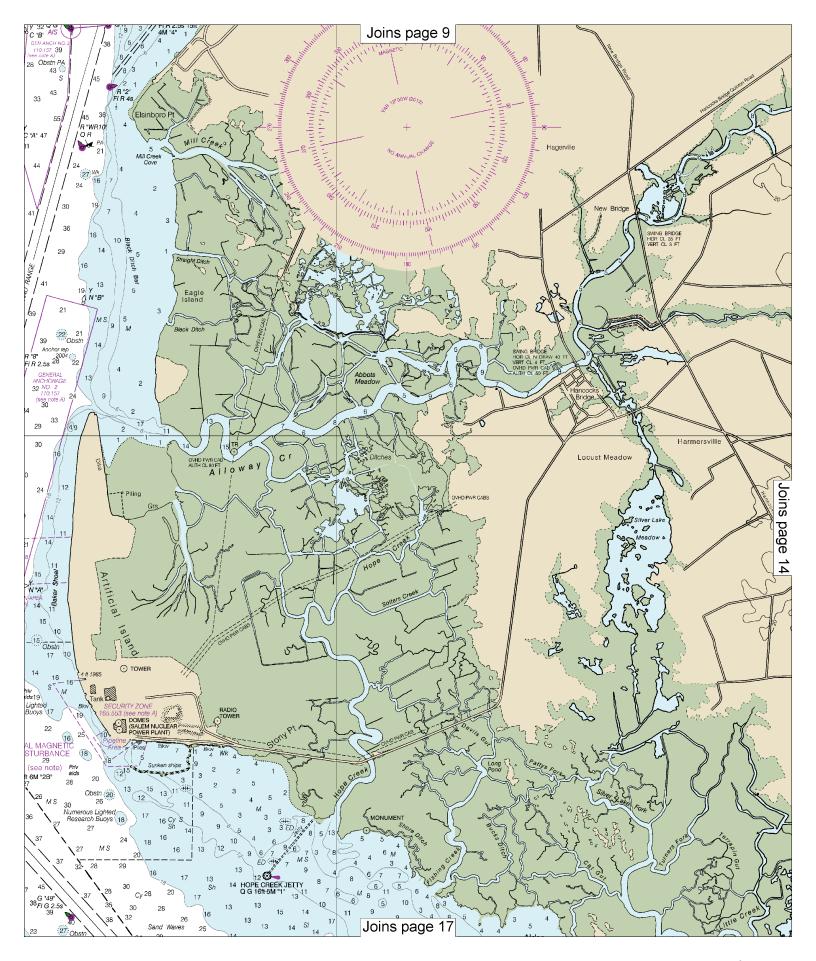
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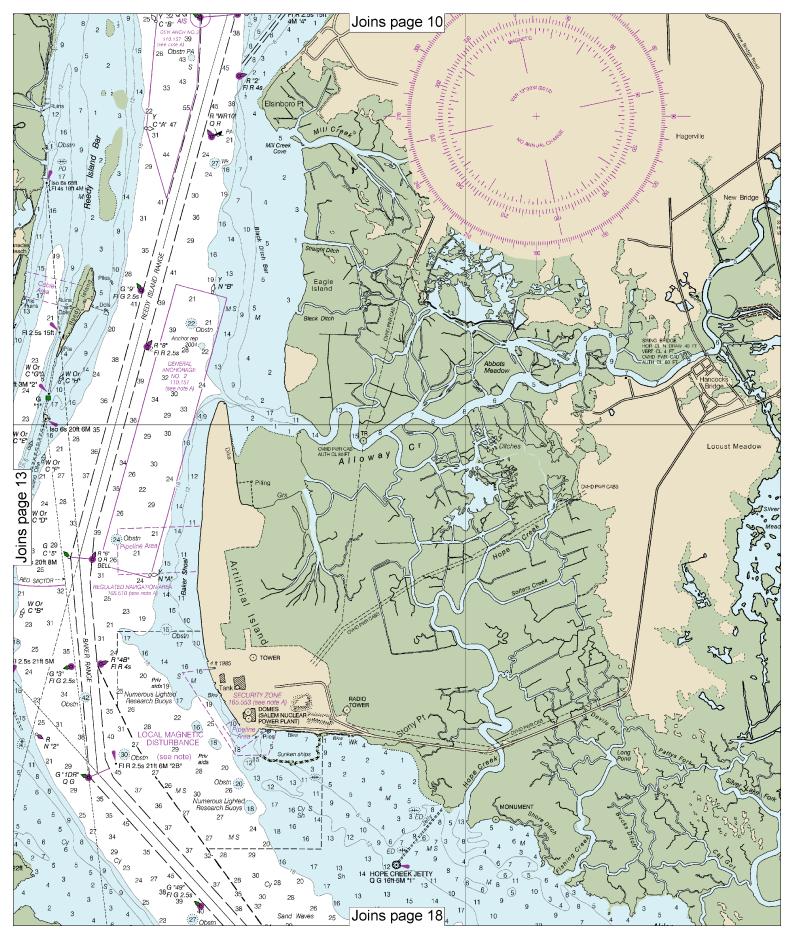
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SCALE 1:40,000
Nautical Miles

Yards

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Note: Chart grid lines are aligned with true north.

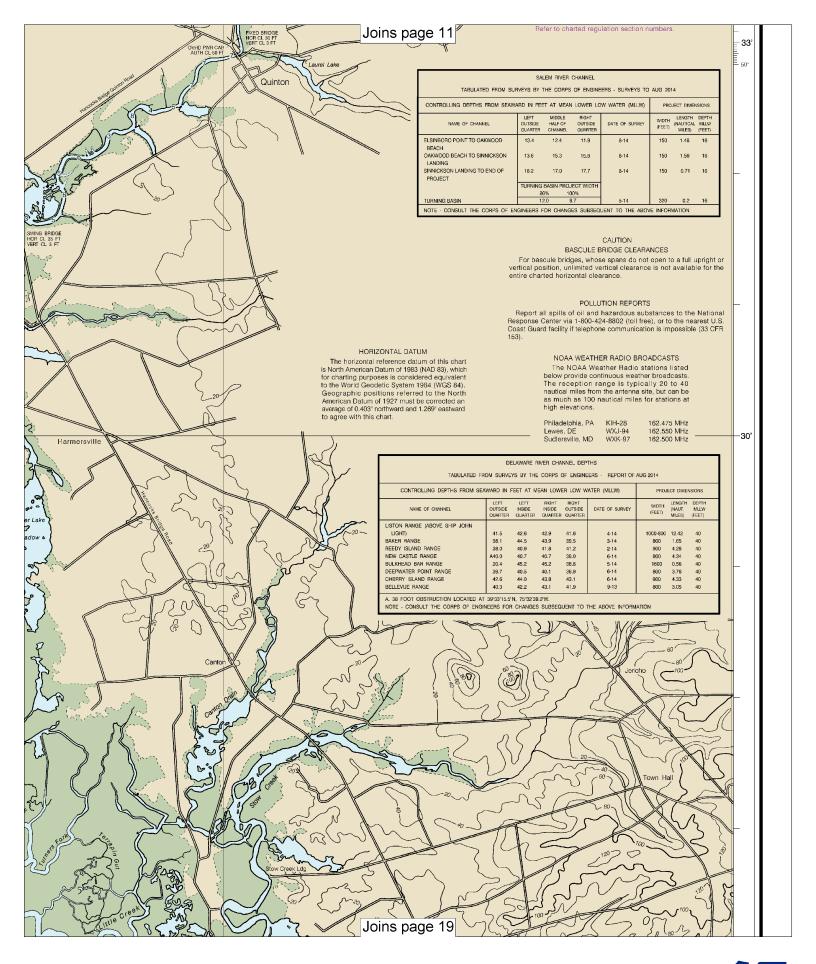
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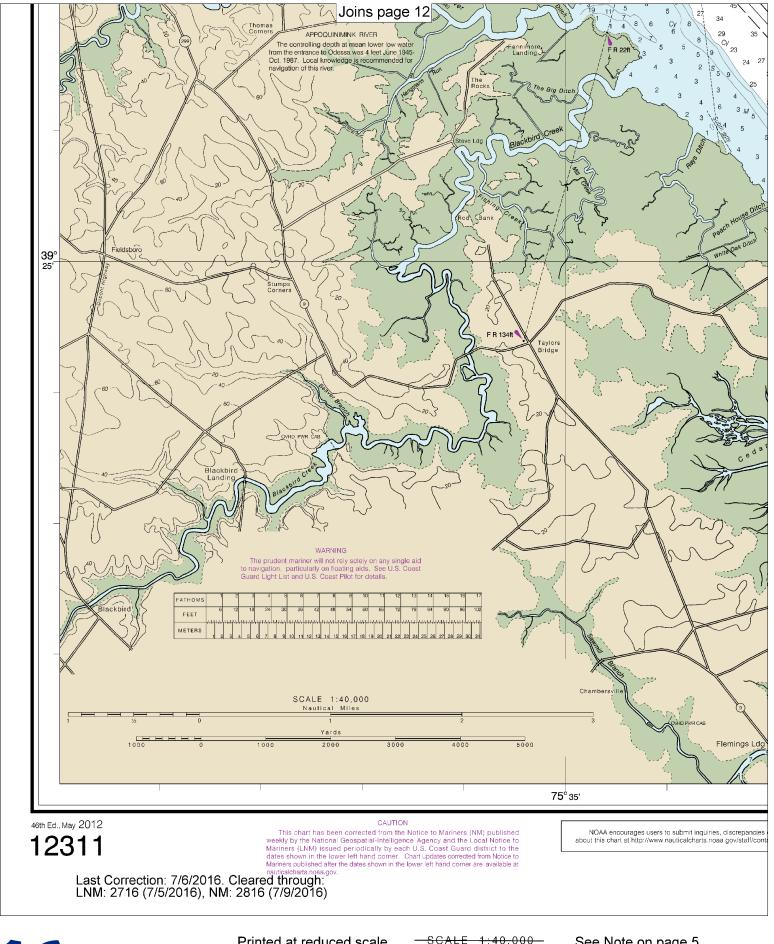
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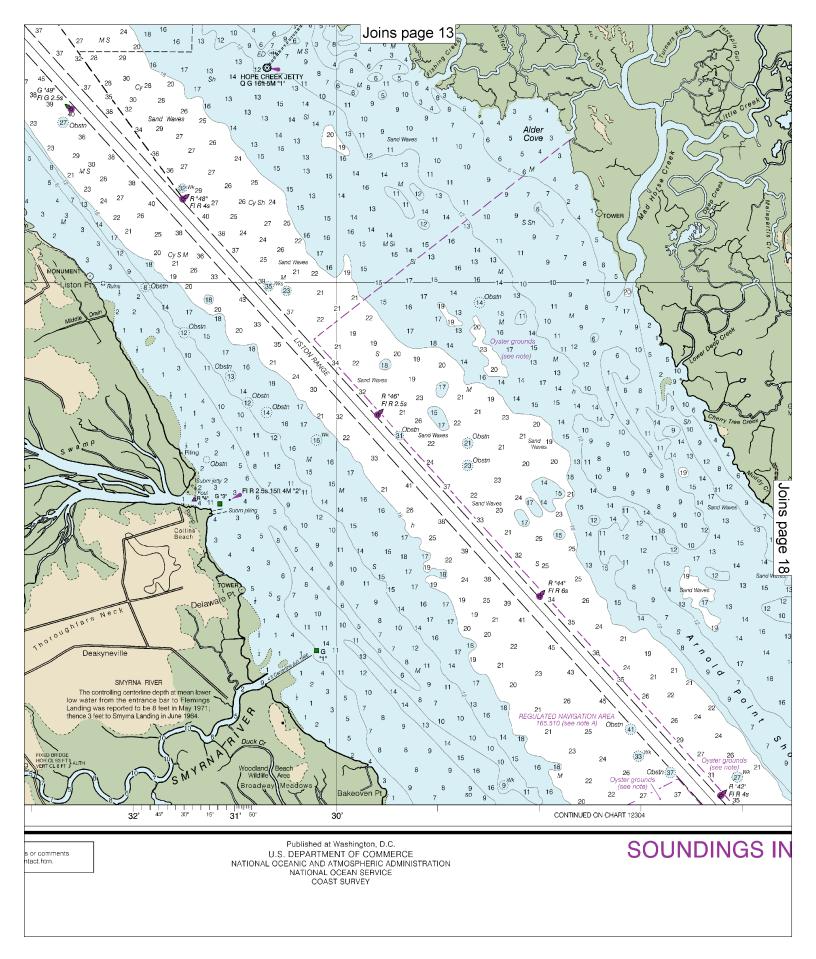
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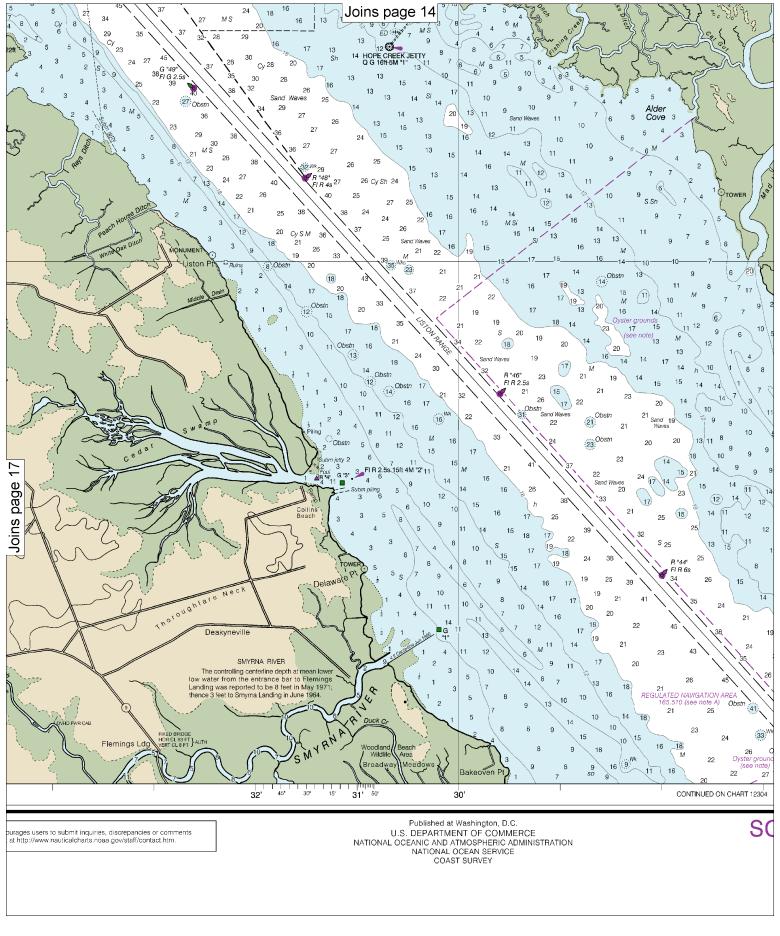
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Note: Chart grid lines are aligned with true north.

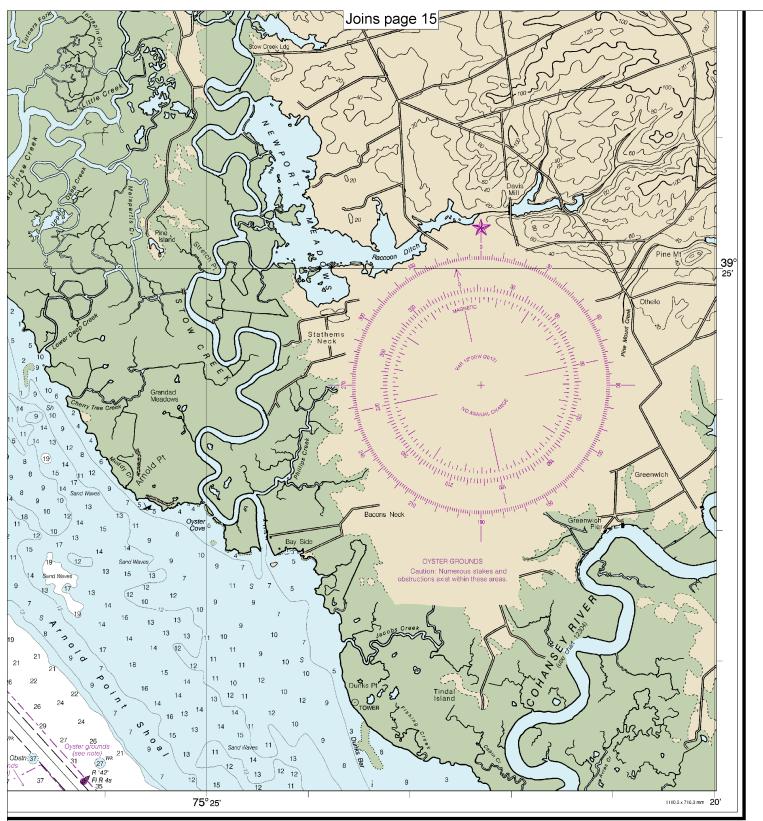
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SCALE 1:40,000
Nautical Miles

2

Yards

1000 0 1000 2000 3000 4000 5000



OUNDINGS IN FEET

Delaware River, Smyrna River to Wilmington SOUNDINGS IN FEET - SCALE 1:40,000

12311



VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here. Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of

Emergency; Number of People on Board.

- · Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

http://www.nws.noaa.gov/nwr/

Quick References

Nautical chart related products and information — http://www.nauticalcharts.noaa.gov

Interactive chart catalog — http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml

Report a chart discrepancy — http://ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx

Chart and chart related inquiries and comments — http://ocsdata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs

Chart updates (LNM and NM corrections) — http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html

Coast Pilot online — http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm

Tides and Currents — http://tidesandcurrents.noaa.gov

Marine Forecasts — http://www.nws.noaa.gov/om/marine/home.htm

National Data Buoy Center — http://www.ndbc.noaa.gov/

NowCoast web portal for coastal conditions — http://www.nowcoast.noaa.gov/

National Weather Service — http://www.weather.gov/

National Hurrican Center — http://www.nhc.noaa.gov/

Pacific Tsunami Warning Center — http://ptwc.weather.gov/

Contact Us — http://www.nauticalcharts.noaa.gov/staff/contact.htm



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This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.